on--, and after "load" insert --, moving from line 1 → 2 → 3 as such weight and speed increase.--

A2

line 3, delete "enlarge"; and

line 4, delete "along" and insert --between-- therein.

Page 28, after line 14, insert the following paragraph:

-- Although the invention has been described and illustrated in detail, it is to be clearly understood that the same is by way of illustration and example, and is not to be taken by way of limitation. The spirit and scope of the present invention are to be limited only by the terms of the appended claims.--

A3

IN THE CLAIMS:

Please amend the claims as follows and add new Claims 22-26 as follows:

Claim 1, line 3, delete "a" and insert --an automobile--; and

line 6, delete "with reference to" and insert --based on--.

Claim 2, line 3, delete "with"; and

line 4, delete "reference to," and insert --in response to-- and also delete ", the".

Claim 3, line 5, delete "with reference to," and insert --in response to-- and also delete ", the"; and

line 6, delete "said" and insert --a-- and delete "further" and insert --by--.

Claim 4, line 3, delete "with" and insert --in--; and

line 4, delete "reference" and insert --response--.

Claim 5, line 4, after "over" insert --between--.

Claim 6, line 3, delete "has been supplied" and insert --receives";

line 4, delete "with values of, at least," and insert --values of at least-- therein;

line 6, delete "supplied values" and insert --values supplied--;

line 7, delete "being" and insert --comprising--;

line 9, after "automobile;" insert --and--; and

line 11, delete "," (both occurrences).

7. (Amended) An automatic transmission control system for an automobile as defined in Claim 6, wherein said vehicle weight estimation means [supplies] includes means for supplying said time-serial signals of said throttle valve opening and said acceleration, commencing when [at a timing at which] said throttle valve opening has exceeded a predetermined value and [at which] said acceleration has also exceeded a predetermined value.

Claim 8, line 4, delete "dependency on" and insert --response to--.

Claim 9, line 4, delete "dependency on," and insert --response to--; and

line 5, delete ",".

Claim 10, line 4, delete "dependency on" and insert --response to--; and

line 5, delete "running" and after "automobile", insert --when it is in motion--.

Claim 11, line 4, delete "dependency on" and insert --response to--; and

line 5, delete "running" and insert --when it is in motion--.

Claim 12, line 3, delete "is" and insert --comprises--;

line 7, delete "accepting" and insert --receiving--;

line 11, delete "accepted" and insert --received--;

line 12, delete "is" and insert --comprises--; and

line 15, delete "determining" and insert --selecting--.

13. (Amended) An automatic transmission control system for an automobile as defined in Claim 12, wherein:

said vehicle weight estimation means estimates said vehicle weight of said automobile [by accepting] <u>in response to</u> a throttle valve opening signal and a vehicle speed signal in addition to said acceleration signal;

said torque estimation means estimates said output torque [by accepting] <u>in response to</u> a revolution speed signal of an engine of said drive train and a turbine revolution speed signal of a torque converter of said automatic transmission; and

said running load estimation means estimates said running load [from] in response to said acceleration signal, said estimated vehicle weight and the estimated output torque.

Claim 14, line 9, delete "dependency on" and insert --response to--.

Claim 16, line 7, delete "accepting" and insert --receiving--;

line 8, after "acceleration" insert --signal--;

line 11, delete "input acceleration" and insert --received acceleration signal--.

Claim 21, line 1, change "21" to --17--.

IN THE ABSTRACT:

Line 4, delete "(106";

line 5, delete "in Fig. 1)"

line 6, delete ";" and "(107, 1001)";

line 7, delete "(102)";

line 9, delete "(110)"; and

line 13, delete "(109)".

Please add the following new claims:

--18. Method of controlling an automatic transmission for an automobile having means for storing a plurality of shift schedules for said automatic transmission, said method comprising the steps of:

first, calculating a value for an automobile load of said automobile and generating an automobile load signal indicative thereof;

second, calculating a value for an output torque of said transmission based on torque characteristics of a drive train of said automobile and generating an output torque signal indicative of said output torque value;

third, estimating a running load of said automobile based on said automobile load signal and said output torque signal; and

fourth, selecting a shift schedule from among a plurality of shift schedules stored in said means for storing, based on the estimated running load.

19. Method according to Claim 18, wherein said ~~second~~ third step comprised calculating said output torque based on at least torque characteristics of a torque converter of said automatic transmission.

20. Method according to Claim 18, wherein said second step comprises calculating said output torque based on at least torque characteristics of a torque converter of said automatic transmission, and those of an engine of said drive train.

21. Method according to Claim 18, wherein said ~~second~~ third step comprises calculating said output torque based on torque characteristics of an engine of said drive train when a ratio between an input revolution speed and an output revolution speed is greater than a predetermined value, and calculating said